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# FEE TRANSMITTAL for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 0.00

**Complete if Known**

Application Number	10/620,404
Filing Date	07/16/2003
First Named Inventor	James M. Ntambi
Examiner Name	
Art Unit	1614
Attorney Docket No.	960296.99128

**METHOD OF PAYMENT** (check all that apply)☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit  
Account  
Number  
Deposit  
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17-0055

Quarles &amp; Brady LLP

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments☐ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	790	2001	395	Utility filing fee	
1002	350	2002	175	Design filing fee	
1003	550	2003	275	Plant filing fee	
1004	790	2004	395	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$ ) 0.00

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

		Extra Claims		Fee from below		Fee Paid
Total Claims		-20** =		X		0.00
Independent Claims		-3** =		X		0.00
Multiple Dependent						

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	88	2201	44	Independent claims in excess of 3
1203	300	2203	150	Multiple dependent claim, if not paid
1204	88	2204	44	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ ) 0.00

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION** (continued)**3. ADDITIONAL FEES**

Large Entity

Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for <i>ex parte</i> reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	430	2252	215	Extension for reply within second month	
1253	980	2253	490	Extension for reply within third month	
1254	1,530	2254	765	Extension for reply within fourth month	
1255	2,080	2255	1,040	Extension for reply within fifth month	
1401	340	2401	170	Notice of Appeal	
1402	340	2402	170	Filing a brief in support of an appeal	
1403	00	2403	150	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,370	2501	65	Utility issue fee (or reissue)	
1502	40	2502	245	Design issue fee	
1503	60	2503	30	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	2809	395	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	790	2810	395	For each additional invention to be examined (37 CFR 1.129(b))	
1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 0.00

**SUBMITTED BY**

Name (Print/Type)

Bennett J. Berson

Registration No.  
(Attorney/Agent)

37,094

(Complete if applicable)

Telephone 608/251-5000

Signature

Date 11/8/2004

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.  
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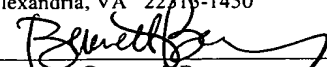
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I hereby certify that this correspondence is being deposited with the United States Postal Service on the date set forth below as First Class Mail in an envelope addressed to: Commissioner for Patents, P O Box 1450, Alexandria, VA 22313-1450

Date of Signature and Deposit: Nov. 8, 2004

  
Bennett J. Berson



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: James M. Ntambi  
Alan D. Attie  
Makoto Miyazaki

Date: Nov. 8, 2004

Serial No.: 10/620,404

Group Art Unit:

Filed: 07/16/2003

Examiner:

Title: METHOD FOR INCREASING INSULIN  
SENSITIVITY AND FOR TREATING  
AND PREVENTING TYPE 2 DIABETES

File No.: 960296.99128

INFORMATION DISCLOSURE STATEMENT

Commissioner For Patents  
P O Box 1450  
Alexandria, VA 22131-1450

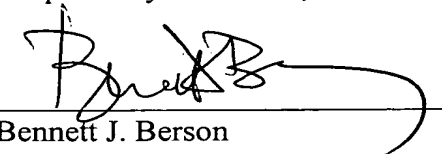
Dear Sir:

Enclosed is a completed Form PTO-1449 listing documents that the applicants in the above-identified application wish to bring to the attention of the Examiner for consideration in connection with the examination on the merits of this application.

Some of the documents were cited in connection with a corresponding PCT patent application and are brought to the attention of the Examiner to comply with the ongoing duty of candor. A copy of the PCT International Search Report is also enclosed for reference.

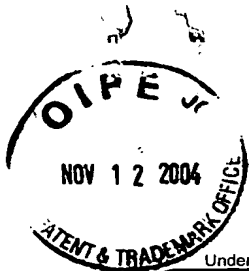
No fee is believed due in connection with this submission. However, if a fee is due, please charge the fee to Deposit Account No. 17-0055.

Respectfully submitted,

  
Bennett J. Berson

Reg. No.: 37,094  
Attorney for Applicants  
QUARLES & BRADY LLP  
P O Box 2113  
Madison, WI 53701-2113

TEL 608/251-5000  
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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

### Complete if Known

Application Number	10/620,404
Filing Date	07/16/2003
First Named Inventor	James M. Ntambi
Art Unit	1614
Examiner Name	
Attorney Docket Number	960296.99128

Sheet 1 of 3

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4,910,224	03/20/1990	Habib et al.	
		US- 2003/0064950 A1	04/03/2003	Ntambi et al.	
		US- 2003/0157552 A1	08/21/2003	Hayden et al.	
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### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO 01/62954 A2	08/30/2001	Xenon Genetics, Inc. et al.	(excerpts and all claims as published)	

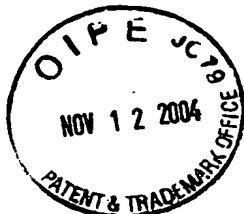
Examiner  
Signature

Date  
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/620,404		
		Filing Date	07/16/2003		
		First Named Inventor	James M. Ntambi		
		Art Unit	1614		
Examiner Name					
Sheet	2	of	3	Attorney Docket Number	960296.99128

OTHER PRIOR ART–NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		BALL, CA, et al., "Standards for Microarray Data," Science 298:539-542 (2002)	
		COHEN, P, et al., "Role for Stearoyl-CoA Desaturase-1 in Leptin-Mediated Weight Loss," Science 297:240-243 (2002)	
		KAKUMA, T, et al., "Effects of leptin, troglitazone, and dietary fat on stearoyl CoA desaturase," Biochemical and Biophysical Research Commun. 297:1259-1263 (2002)	
		KUREBAYASHI, S, et al., "Thiazolidinediones downregulate stearoyl-CoA desaturase 1 gen expression in 3T3-L1 adipocytes," Diabetes 46:2115-2118 (1997) Abstract	
		MIYAZAKI, M, et al., "The Biosynthesis of Hepatic Cholesterol Esters and Triglycerides Is Impaired in Mice ...," The Journal of Biological Chemistry 275:30132-30138 (2000)	
		MIYAZAKI, M, et al., "A lipogenic diet in mice with a disruption of the stearoyl-CoA desaturase 1 gene....," Journal of Lipid Research 42:1018-1024 (2001)	
		MIYAZAKI, M, et al., "Targeted Disruption of Stearoyl-CoA Desaturase 1 Gene in Mice Causes Atrophy of Sebaceous....," J. Nut. 131:2260-2268 (2001)	
		NTAMBI, JM, "Regulation of stearoyl-CoA desaturase by polyunsaturated fatty acids and cholesterol," Journal of Lipid Research 40:1549-1558 (1999)	
		NTAMBI, JM, et al., "Loss of stearoyl-CoA desaturase-1 function protects mice against adiposity," PHAS 99:11482-11486 (2002)	
		SESSLER, AM, et al., "Regulation of Stearoyl-CoA Desaturase 1 mRNA Stability by Polyunsaturated Fatty Acids....," Journal of Biological Chemistry 271:29854-29858 (1996)	

Examiner Signature		Date Considered	
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08B (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031

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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Application Number</b>	10/620,404
		<b>Filing Date</b>	07/16/2003
		<b>First Named Inventor</b>	James M. Ntambi
		<b>Group Art Unit</b>	1614
		<b>Examiner Name</b>	
		<b>Attorney Docket Number</b>	960296.99128
<b>Sheet</b>	3	<b>of</b>	3

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>2</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		UNGER, RH, "Lipotoxic Diseases," Annu. Rev. Med. 53:319-336 (2002)	

<b>Examiner Signature</b>		<b>Date Considered</b>	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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